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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0942.4150002		APPLICATION NO. 09/883,183	
		APPLICANT Blakesley, R.W.			
		FILING DATE June 19, 2001		GROUP 1656	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1 4,683,195	07/28/1987	Mullis et al.	435	6	02/07/1986
	AB1 4,683,202	07/28/1987	Mullis K.	435	91	10/25/1985
	AC1 4,766,072	08/23/1988	Jendrisak et al.	435	91	07/17/1985
	AD1 4,767,708	08/30/1988	Minkley, Jr. et al.	435	194	08/07/1984
	AE1 4,795,699	01/03/1989	Tabor et al.	435	5	01/14/1987
	AF1 4,800,159	01/24/1989	Mullis et al.	435	172.3	12/17/1986
	AG1 4,851,331	07/25/1989	Vary et al.	435	6	05/16/1986
	AH1 4,863,849	09/05/1989	Melamede R.	435	6	07/18/1985
	AI1 4,952,496	08/28/1990	Studier et al.	435	91	12/29/1986
	AJ1 4,962,020	10/09/1990	Tabor et al.	435	6	07/12/1988
	AK1 4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1 EP 0 386 858	09/12/1990	Europe			Yes No
	AM1 EP 0 386 859	09/12/1990	Europe			Yes No
	AN1 EP 0 409 078	01/23/1991	Europe			Yes No
	AO1 WO 91/09950	07/11/1991	WIPO			Yes No
	AP1 WO 92/06188	04/16/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Allen, T. et al., "Cloning and expression of the adenine phosphoribosyltransferase gene from <i>Leishmania donovani</i> ," <i>Molecular and Biochemical Parasitology</i> 74(1):99-103 (October 1995)
	AS	1	Beabealashvilli, R.S. et al., "Nucleoside 5'-triphosphates modified at sugar residues as substrates for calf thymus terminal deoxynucleotidyl transferase and for AMV reverse transcriptase," <i>Biochimica et Biophysica Acta</i> 868(2/3):136-144 (1986)
	AT	1	Bult, C.J. et al., "Complete Genome Sequence of the Methanogenic Archaeon, <i>Methanococcus jannaschii</i> ," <i>Science</i> 273:1058-1072 (August 1996)

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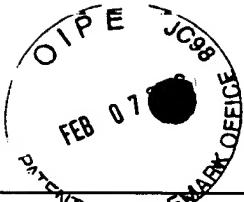
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2 4,971,903	11/20/1990	Hyman E.	435	6	03/25/1988
	AB2 5,003,059	03/26/1991	Brennan T.	536	27	06/20/1988
	AC2 5,026,645	06/25/1991	Kotani et al.	435	194	10/19/1987
	AD2 5,075,216	12/24/1991	Innis et al.	435	6	09/23/1988
	AE2 5,079,352	01/07/1992	Gelfand et al.	536	27	05/15/1990
	AF2 5,091,310	02/25/1992	Innis M.	435	91	09/23/1988
	AG2 5,102,802	04/07/1992	McAllister W.	435	252.33	01/02/1991
	AH2 5,106,729	04/21/1992	Lindsay et al.	435	6	07/24/1989
	AI2 5,108,892	04/28/1992	Burke et al.	435	6	08/03/1989
	AJ2 5,122,457	06/16/1992	Reim et al.	435	69.1	10/19/1989
	AK2 5,124,247	06/23/1992	Ansorge W.	435	6	12/11/1989

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2 WO 92/06202	04/16/1992	WIPO			Yes No
	AM2 EP 0 482 714	04/29/1992	Europe			Yes No
	AN2 CA 1,311,201	12/08/1992	Canada			Yes No
	A02 WO 93/04184	03/04/1993	WIPO			Yes No
	AP2 WO 93/05060	03/18/1993	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Charng, Y. et al., "Molecular cloning and expression of the gene encoding ADP-glucose pyrophosphorylase from the cyanobacterium Anabaena sp. strain PCC 7120," <i>Plant Mol. Biol.</i> 20(1):37-47 (1992)
	AS	2	Chidgeavadze, Z.G. and R.S. Beabashvilli, "2',3'-Dideoxy-3'aminonucleoside 5'-triphosphates are the terminators of DNA synthesis catalyzed by DNA polymerases," <i>Nucl. Acids Res.</i> 12(3):1671-1686 (1984)
	AT	2	Chidgeavadze, Z.G. et al., "3'-Fluoro-2',3'-dideoxyribonucleoside 5'-triphosphates: terminators of DNA synthesis," <i>FEBS Letters</i> 183(2):275-278 (1985)

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED 0-9-02
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AA3	5,126,251	06/30/1992	Moss et al.	435	69.1	03/01/1990
AB3	5,142,033	08/25/1992	Innis M.	536	27	07/31/1991
AC3	5,173,411	12/22/1992	Tabor et al.	435	91	04/12/1991
AD3	5,192,674	03/09/1993	Oshima et al.	435	194	08/24/1989
AE3	5,198,543	03/30/1993	Blanco et al.	536	23.2	03/13/1991
AF3	5,210,036	05/11/1993	Comb et al.	435	194	04/26/1990
AG3	5,242,818	09/07/1993	Oshima et al.	435	194	06/05/1992
AH3	5,270,179	12/14/1993	Chatterjee D.	435	69.1	01/28/1992
AI3	5,308,751	05/03/1994	Ohkawa et al.	435	6	03/23/1992
AJ3	5,332,666	07/26/1994	Prober et al.	435	94.5	10/22/1991
AK3	5,352,778	10/04/1994	Comb et al.	536	23.2	12/15/1993

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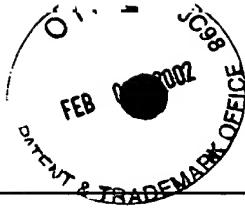
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AL3	EP 0 547 359	06/23/1993	Europe			Yes No
AM3	WO 93/20232	10/14/1993	WIPO			Yes No
AN3	WO 94/03643	02/17/1994	WIPO			Yes No
AO3	WO 94/16107	07/21/1994	WIPO			Yes No
AP3	WO 94/26911	11/24/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Chidgeavadze, Z.G. et al., "Nucleoside 5'-triphosphates with modified sugars as substrates for DNA polymerases," <i>Biochimica et Biophysica Acta</i> 868(2/3):145-152 (1986)
AS	3	Dyatkina, N. et al., "Properties of 2',3'-dideoxy-2',3'-dehydrothymidine 5'-triphosphate in terminating DNA synthesis catalyzed by several different DNA polymerases," <i>FEBS Letters</i> 219(1):151-155 (1987)
AT	3	Feldmann, R.C. et al., "Decreased Metabolism and Viability of <i>Mycoplasma hominis</i> Induced by Monoclonal Antibody-Mediated Agglutination," <i>Infection and Immunity</i> 60(1):166-174 (1992)

EXAMINER	<i>Yann</i>	DATE CONSIDERED
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA4	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
AB4	5,403,709	04/04/1995	Agrawal et al.	435	6	10/06/1992
AC4	5,405,746	04/11/1995	Uhlen M.	435	6	09/22/1993
AD4	5,405,747	04/11/1995	Jett et al.	435	6	03/07/1994
AE4	5,405,774	04/11/1995	Abramson et al.	435	252.3	09/10/1993
AF4	5,405,776	04/11/1995	Kotewicz et al.	435	252.33	01/24/1992
AG4	5,407,799	04/18/1995	Studier F.	435	6	10/12/1993
AH4	5,409,811	04/25/1995	Tabor et al.	435	6	04/16/1992
AI4	5,411,862	05/02/1995	Ruggiu et al.	435	6	04/23/1993
AJ4	5,413,926	05/09/1995	Oshima et al.	435	194	06/05/1992
AK4	5,420,029	05/30/1995	Gelfand et al.	435	194	08/13/1991

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL4	WO 95/04162	02/09/1995	WIPO			Yes No
AM4	EP 0 647 716	04/12/1995	Europe			Yes No
AN4	WO 95/14770	06/01/1995	WIPO			Yes No
AO4	WO 95/15380	06/08/1995	WIPO			Yes No
AP4	WO 95/20682	08/03/1995	WIPO			

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AR	4	Ghim, S. and J. Neuhard, "The Pyrimidine Biosynthesis Operon of the Thermophile <i>Bacillus caldolyticus</i> Includes Genes for Uracil Phosphoribosyltransferase and Uracil Permease," <i>J. Bacteriology</i> 176(12):3698-3707 (1994)
AS	4	Hughes, K.T. et al., "The <i>Salmonella typhimurium</i> nadC Gene: Sequence Determination by Use of Mud-P22 and Purification of Quinolinate Phosphoribosyltransferase," <i>J. Bacteriology</i> 175(2): 479-486 (1993)
AT	4	Jagadeeswaran, P. et al., "Nucleotide sequence and analysis of deletion mutants of the <i>Escherichia coli</i> gpt gene in plasmid pSV ₂ gpt," <i>Gene</i> 31:309-313 (1984)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5	5,432,065	07/11/1995	Fuller C.	435	91.1	03/30/1993
	AB5	5,436,149	07/25/1995	Barnes W.	435	194	02/19/1993
	AC5	5,436,326	07/25/1995	Ishino <i>et al.</i>	536	23.2	03/09/1994
	AD5	5,455,170	10/03/1995	Abramson <i>et al.</i>	435	252.3	08/27/1993
	AE5	5,466,591	11/14/1995	Abramson <i>et al.</i>	435	194	09/30/1991
	AF5	5,474,920	12/12/1995	Moses R.	435	194	11/23/1993
	AG5	5,484,701	01/16/1996	Cocuzza <i>et al.</i>	435	6	01/31/1992
	AH5	5,489,523	02/06/1996	Mathur E.	435	194	10/26/1992
	A15	5,498,523	03/12/1996	Tabor <i>et al.</i>	435	6	07/14/1994
	AJ5	5,500,363	03/19/1996	Comb <i>et al.</i>	435	194	09/07/1993
	AK5	5,503,980	04/02/1996	Cantor C.	435	6	10/17/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 95/23236	08/31/1995	WIPO			Yes No
	AM5	WO 95/27067	10/12/1995	WIPO			Yes No
	AN5	EP 0 701 000	03/13/1996	Europe			Yes No
	A05	WO 96/10640	04/11/1996	WIPO			Yes No
	AP5	WO 96/14405	05/17/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Jiang, Y. <i>et al.</i> , "Crithidia fasciculata: Isolation, Sequencing, and Expression of the Hypoxanthine-Guanine Phosphoribosyltransferase Gene," <i>Exper. Parasitology</i> 82(1):73-75 (January 1996)
	AS	5	Johnson, J.C. <i>et al.</i> , "An Enzymic Method for Determination of Inorganic Pyrophosphate and Its Use as an Assay for RNA Polymerase," <i>Analytical Biochem.</i> 26(1):137-145 (1968)
	AT	5	Kalmar, G.B. <i>et al.</i> , "Cloning and expression of rat liver CTP:phosphocholine cytidylytransferase: An amphipathic protein that controls phosphatidylcholine synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 87(16):6029-6033 (1990)

EXAMINER	<i>Yuan</i>	DATE CONSIDERED	12-9-02
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA6	5,512,458	04/30/1996	Leonard J.	435	91.1	07/14/1994
AB6	5,512,462	04/30/1996	Cheng S.	435	91.2	02/25/1994
AC6	5,516,633	05/14/1996	Fuller C.	435	6	08/06/1992
AD6	5,525,464	06/11/1996	Drmanac et al.	435	6	02/28/1994
AE6	5,525,470	06/11/1996	Cohen et al.	435	6	01/26/1994
AF6	5,545,552	08/13/1996	Mathur E.	435	252.3	04/19/1995
AG6	5,547,859	08/20/1996	Goodman et al.	435	91.1	08/02/1993
AH6	5,550,035	08/27/1996	Moss et al.	435	69.1	01/26/1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL6	WO 96/14417	05/17/1996	WIPO			Yes No
AM6	WO 96/14434	05/17/1996	WIPO			Yes No
AN6	EP 0 712 927	05/22/1996	Europe			Yes No
AO6	EP 0 763 599	03/19/1997	Europe			Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Kim, D. and S.M. Smith, "Molecular cloning of cucumber phosphoenolpyruvate carboxykinase and developmental regulation of gene expression," <i>Plant Mol. Biol.</i> 26(1):423-434 (1994)
	AS	6	Kornberg, A. and T.A. Baker, "Biosynthesis of DNA Precursors," <i>In: DNA Replication 2nd Edition</i> , W.H. Freeman and Company publ. New York pp.68-69 (1992)
	AT	6	Krayevsky, A.A. et al., "Selective Inhibition of DNA Chain Elongation Catalyzed By DNA Polymerases," <i>Nucleosides & Nucleotides</i> 7(5&6):613-617 (1988)

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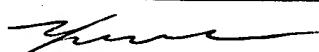
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AL						Yes No
AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Kutatladze, T.V. et al., "3'-Hydroxymethyl 2'-deoxynucleoside 5'-triphosphates are inhibitors highly specific for reverse transcriptase," FEBS Letters 207(2):205-212 (1986)
	AS	7	Ladror, U.S. et al., "Cloning, Sequencing, and Expression of Pyrophosphate-dependent Phosphofructokinase from <i>Propionibacterium freudenreichii</i> ," J. Biol. Chem. 266(25):16550-16555 (1991)
	AT	7	Leyh, T.S. et al., "The Sulfate Activation Locus of <i>Escherichia coli</i> K12: Cloning, Genetic, and Enzymatic Characterization," J. Biol. Chem. 263(5):2409-2416 (1988)

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AN						Yes No
AO						Yes No
AP						Yes No

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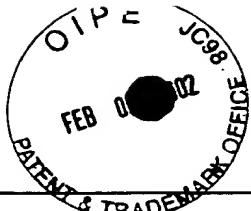
	AR	8	Leyh, T.S. et al., "The DNA Sequence of the Sulfate Activation Locus from <i>Escherichia coli</i> K-12," <i>J. Biol. Chem.</i> 267(15):10405-10410 (1992)
	AS	8	Ludin, K.M. et al., "The ade4 gene of <i>Schizosaccharomyces pombe</i> :cloning, sequence and regulation," <i>Curr. Genet.</i> 25(1):465-468 (1994)
	AT	8	Marolda, C.L. and M.A. Valvano, "Identification, Expression, and DNA Sequence of the GDP-Mannose Biosynthesis Genes Encoded by the O7 rfb Gene Cluster of Strain VW187 (<i>Escherichia coli</i> O7:K1)," <i>J. Bacteriology</i> 175(1):148-158 (1993)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	9	Müller-Röber, B. et al., "Isolation and expression analysis of cDNA clones encoding a small and a large subunit of ADP-glucose pyrophosphorylase from sugar beet," <i>Plant Mol. Biol.</i> 27(1):191-197 (January 1995)
	AS	9	Nakagawa, S. et al., "Nucleotide Sequence of the FAD Synthetase Gene from <i>Corynebacterium ammoniagenes</i> and Its Expression in <i>Escherichia coli</i> ," <i>Biosci. Biotech. Biochem.</i> 59(4):694-702 (April 1995)
	AT	9	Nyrén, P., "Enzymatic Method for Continuous Monitoring of DNA Polymerase Activity," <i>Analytical Biochem.</i> 167(2):235-238 (1987)

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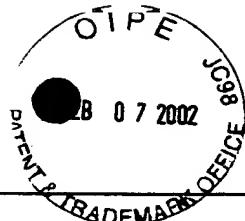
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Pla, J. et al., "Cloning of the <i>Candida albicans</i> HIS1 gene by direct complementation of a <i>C. albicans</i> histidine auxotroph using an improved double-ARS shuttle vector," <i>Gene</i> 165(1):115-120 (November 1995)
	AS	10	Pyrinova, G.B. et al., "Selective Inhibition of Reverse Transcription in Type-A Retroviral Particles From Rat Liver by 3'-Azido-2',3'-dideoxythymidine-5' triphosphate," <i>Molekulyarnaya Biologiya</i> 22(5):1128-1132 (1988)
	AT	10	Rose, A.B. et al., "A Phosphoribosylanthranilate Transferase Gene Is Defective in Blue Fluorescent <i>Arabidopsis thaliana</i> Tryptophan Mutants," <i>Plant Physiol.</i> 100(2):582-592 (1992)

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		APPLICANT Blakesley, R.W.	
		FILING DATE June 19, 2001	GROUP 1656

U.S. PATENT DOCUMENTS

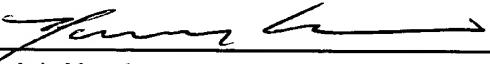
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AL						Yes No
AM						Yes No
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AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	11	Ruan, C.C. et al., "Role of Pryophosphorylation in DNA Sequencing," <i>Editorial Comments, US Biochemical Corp.</i> 17(1):1-27 (1990)
	AS	11	Shanmugam, K. et al., "Purification and characterization of a tRNA nucleotidyltransferase from <i>Lupinus albus</i> and functional complementation of a yeast mutation by the corresponding cDNA," <i>Plant Mol. Biol.</i> 30(2):281-295 (January 1996)
	AT	11	Siebers, B. and R. Hensel, "Glucose catabolism of the hyperthermophilic archaeum <i>Thermoproteus tenax</i> ," <i>FEBS Letters</i> 111(1):1-8 (1993)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	12	Tabor, S. and C.C. Richardson, "DNA Sequence Analysis with a Modified Bacteriophage T7 DNA Polymerase," <i>J. Biol. Chem.</i> 265(14):8322-8328 (1990)
	AS	12	Vakulenko, S.B. et al., "Cloning And Nucleotide Sequence Determination of AADB Gene From <i>Salmonella oranienburg</i> ," <i>Antibiot. Khimioter.</i> 38(6):25-30 (1993)
	AT	12	Vinitsky, A. et al., "Cloning and Nucleic Acid Sequence of the <i>Salmonella typhimurium pncB</i> Gene and Structure of Nicotinate Phosphoribosyltransferase," <i>J. Bacteriology</i> 173(2):536-540 (1991)

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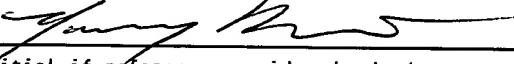
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	13	Vonstein, V. et al., "Molecular Cloning of the <i>pyrE</i> Gene from the Extreme Thermophile <i>Thermus flavus</i> ," <i>J. Bacteriology</i> 177(8):4540-4543 (August 1995)
	AS	13	Weissborn, A.C. et al., "UTP:α-D-Glucose-1-Phosphate Uridyltransferase of <i>Escherichia coli</i> : Isolation and DNA Sequence of the <i>galU</i> Gene and Purification of the Enzyme," <i>J. Bacteriology</i> 176(9):2611-2618 (1994)
	AT	13	Yamagishi, A. et al., "Pyrimidine Biosynthesis Genes (<i>pyrE</i> and <i>pyrF</i>) of an Extreme Thermophile, <i>Thermus thermophilus</i> ," <i>Applied And Environmental Microbiology</i> 62(6):2191-2194 (June 1996)

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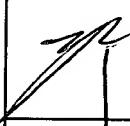
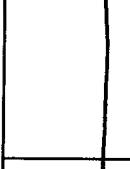
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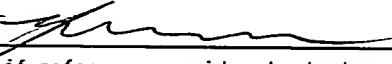
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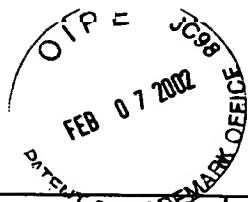
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Zapata, G. et al., "Sequence of the Cloned <i>Escherichia coli</i> K1 CMP-N-acetylneurameric Acid Synthetase Gene," <i>J. Biol. Chem.</i> 264(25):14769-14774 (1989)
	AS	14	Zhu, X. et al., "Role of Glycine 212 in the Allosteric Behavior of Phosphofructokinase from <i>Bacillus stearothermophilus</i> ," <i>Biochem.</i> 34(8):2560-2565 (February 1995)
	AT	14	English language abstract of EP 0 409 078, WPI Accession No. 91-023706/199104

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	AR	15	English language abstract of EP 0 647 716, WPI Accession no. 95-140757/199519
	AS	15	English language abstract of Document AS12, article by S. Vakulenko, Medline Identification no. 9421992
	AT		
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	AM						Yes No
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<i>ML</i>	AP7	JP 7-163343	06/27/1995	Japan			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
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<i>ML</i>	AT	15	Abbotts, J., et al., "Studies on the Mechanism of <i>Escherichia coli</i> DNA Polymerase I Large Fragment," <i>J. Biol. Chem.</i> 263:15094-15103 (1988)

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<i>yr</i>	AL8	JP 8-9999	01/16/1996	Japan			Yes X No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>yr</i>	AR	<u>16</u>	Beato, M., "Gene Regulation by Steroid Hormones," <i>Cell</i> 56:335-344 (1989)
	AS	<u>16</u>	Boisclair, Y. R., and Brown, A. L., "Use of Reverse Ligation-PCR to Identify Transcriptional Start Sites in GC-Rich TATA-Less Genes: Application to the Rat IGFBP-2 Gene," <i>DNA and Cell Biol.</i> 14:731-739 (August 1995)
	AT	<u>16</u>	Brock, K. V., et al., "Nucleotide sequencing of 5' and 3' termini of bovine viral diarrhea virus by RNA ligation and PCR," <i>J. Virol. Meth.</i> 38:39-46 (1992)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>sp</i>	AR	17	Brooks, R. R., and Andersen, J. A., "Substrate, Metal and Template Effects on Inhibition of Bacteriophage-Q β Ribonucleic Acid Polymerase by Ortho- and Pyrophosphate," <i>Biochem. J.</i> 171:725-732 (1978)
<i>l</i>	AS	17	Calhoun, D. H., et al., "Location of the rho Gene and Characterization of λ ilv-gal Derivatives of λ ilv-rho Bacteriophage," <i>Mol. Gen. Genet.</i> 193:205-209 (1984)
<i>↓</i>	AT	17	Cunningham, P.R., and Ofengand, J., "Use of Inorganic Pyrophosphatase to Improve the Yield of <i>In Vitro</i> Transcription Reactions Catalyzed by T7 RNA Polymerase," <i>BioTechniques</i> 9:713-714 (1990)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

YR	AR	18	Deissler, H., et al., "Affinity Purification and cDNA Cloning of Rat Neural Differentiation and Tumor Cell Surface Antigen gp130 ^{RB13-6} Reveals Relationship to Human and Murine PC-1," <i>J. Biol. Chem.</i> 270:9849-9855 (April 1995)
YR	AS	18	Donehower, L. A., et al., "Regulatory and Coding Potential of the Mouse Mammary Tumor Virus Long Terminal Redundancy," <i>J. Virol.</i> 37:226-238 (1981)
YR	AT	18	Elledge, S. J., et al., "λYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735 (1991)

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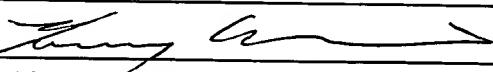
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	AR	<u>19</u>	Fisher, P. A., and Korn, D., "Ordered Sequential Mechanism of Substrate Recognition and Binding by KB Cell DNA Polymerase α ," <i>Biochemistry</i> 20:4560-4569 (1981)
	AS	<u>19</u>	Fuller, C. W., et al., "Mechanisms for the Initiation of Bacteriophage T7 DNA Replication," <i>Cold Spring Herb. Symp. Quant. Biol.</i> 47:669-679 (1983)
	AT	<u>19</u>	Gibbs, J. S., et al., "Sequence and mapping analyses of the herpes simplex virus DNA polymerase gene predict a C-terminal substrate binding domain," <i>Proc. Natl. Acad. Sci. USA</i> 82:7969-7973 (1985)

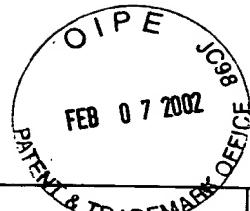
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<i>YR</i>	AR	20	Hörttensteiner, S., et al., "Factors affecting the re-formation of vacuoles in evacuolated protoplasts and the expression of the two vacuolar proton pumps," <i>Planta</i> 192:395-403 (1994)
	AS	20	Huber, H. E., et al., "Escherichia coli Thioredoxin Stabilizes Complexes of Bacteriophage T7 DNA Polymerase and Primed Templates," <i>J. Biol. Chem.</i> 262:16224-16232 (1987)
<i>↓</i>	AT	20	Hyman, E. D., "A New Method of Sequencing DNA," <i>Analyt. Biochem.</i> 174:423-436 (1988)

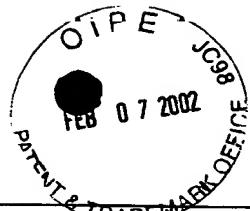
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	AP						Yes No

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<i>✓</i>	AR	<u>21</u>	Kahn, J. D., and Hearst, J. E., "Reversibility of Nucleotide Incorporation by <i>Escherichia coli</i> RNA Polymerase, and Its Effect on Fidelity," <i>J. Mol. Biol.</i> 205:291-314 (1989)
<i>✓</i>	AS	<u>21</u>	Kern, D., et al., "The Glutaminyl-Transfer RNA Synthetase of <i>Escherichia coli</i> , Purification, Structure and Function Relationship," <i>Biochim. Biophys. Acta</i> 607:65-80 (1980)
<i>✓</i>	AT	<u>21</u>	Kuchta, R. D., et al., "Kinetic Mechanism of DNA Polymerase I (Klenow)," <i>Biochemistry</i> 26:8410-8417 (1987)

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<i>22</i>	AR	<u>22</u>	Kunkel, T. A., et al., "On the Fidelity of DNA Synthesis," <i>J. Biol. Chem.</i> 261:13610-13616 (1986)
<i>22</i>	AS	<u>22</u>	Kurilova, S. A., et al., "Expression of <i>Saccharomyces cerevisiae</i> inorganic pyrophosphatase in <i>Escherichia coli</i> ," <i>FEBS Lett.</i> 333:280-282 (1993)
<i>22</i>	AT	<u>22</u>	Lavrik, O. I., et al., "Modification of Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I at Tyrosine Residues by Acetylimidazole," <i>Mol. Biol.</i> 22:392-398 (1988)

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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE <u>STATEMENT</u>		ATTY. DOCKET NO. 0942.4150002	APPLICATION NO. 09/883,183
		APPLICANT Blakesley, R.W.	
		FILING DATE June 19, 2001	GROUP 1656

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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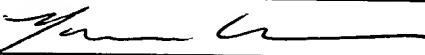
FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	23	Lecomte, P., et al., "Evidence for an Intermediate in DNA Synthesis Involving Pyrophosphate Exchange," <i>J. Mol. Biol.</i> 189:643-652 (1986)
	AS	23	Lee, H. Y., et al., "Cloning, Chromosomal Localization, and Tissue Expression of Autotaxin from Human Teratocarcinoma Cells," <i>Biochem. Biophys. Res. Comm.</i> 218:714-719 (January 1996)
	AT	23	Lerchl, J., et al., "Molecular cloning, characterization and expression analysis of isoforms encoding tonoplast-bound proton-translocating inorganic pyrophosphatase in tobacco," <i>Plant Mol. Biol.</i> 29:833-840 (November 1995)

EXAMINER



DATE CONSIDERED

12-9-02

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<u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		APPLICANT Blakesley, R.W.	
		FILING DATE June 19, 2001	GROUP 1656

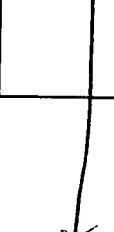
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>24</u>	Maruyama, K., and Sugano, S., "Oligo-capping: a simple method to replace the cap structure of eukaryotic mRNAs with oligoribonucleotides," <i>Gene</i> 138:171-174 (1994)
	AS	<u>24</u>	Matson, S. W., et al., "The Gene 4 Protein of Bacteriophage T7," <i>J. Biol. Chem.</i> 258:14017-14024 (1983)
	AT	<u>24</u>	Meyer, W., et al., "Purification, Cloning, and Sequencing of Archaeabacterial Pyrophosphatase from the Extreme Thermoacidophile <i>Sulfolobus acidocaldarius</i> ," <i>Archives Biochem. Biophys.</i> 319:149-156 (May 1995)

EXAMINER 	DATE CONSIDERED <u>12-9-02</u>
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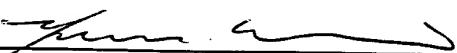
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	25	Mizrahi, V., et al., "Rate-Limiting Steps in the DNA Polymerase I Reaction Pathway," <i>Biochemistry</i> 24:4010-4018 (1985)
	AS	25	Mizrahi, V., et al., "Mechanism of the idling-turnover reaction of the large (Klenow) fragment of <i>Escherichia coli</i> DNA polymerase I," <i>Proc. Natl. Acad. Sci. USA</i> 83:231-235 (1986)
	AT	25	Möller, W., and Amons, R., "Phosphate-binding sequences in nucleotide-binding proteins," <i>FEBS Lett.</i> 186:1-7 (1985)

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DATE CONSIDERED

2-9-02

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	26	Murata, J., et al., "cDNA Cloning of the Human Tumor Motility-stimulating Protein, Autotaxin, Reveals a Homology with Phosphodiesterases," <i>J. Biol. Chem.</i> 269:30479-30484 (1994)
	AS	26	Nyrén, P., and Lundin, A., "Enzymatic Method for Continuous Monitoring of Inorganic Pyrophosphate Synthesis," <i>Analyt. Biochem.</i> 151:504-509 (1985)
	AT	26	Oka, M., and McCormick, D. B., "Complete Purification and General Characterization of FAD Synthetase from Rat Liver," <i>J. Biol. Chem.</i> 262:7418-7422 (1987)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>YR</i>	AR	<u>27</u>	Papanicolaou, C., et al., "Mnemonic Aspects of <i>Escherichia coli</i> DNA Polymerase I: Interaction with One Template Influences the Next Interaction with Another Template," <i>J. Mol. Biol.</i> 189:435-448 (1986)
	AS	<u>27</u>	Peller, L., "Thermodynamic Limits on the Size and Size Distribution of Nucleic Acids Synthesized in Vitro: The Role of Pyrophosphate Hydrolysis," <i>Biochemistry</i> 16:387-395 (1977)
	AT	<u>27</u>	Putnins, R. F., and Yamada, E. W., "Calorimetric Determination of Inorganic Pyrophosphate by a Manual or Automated Method," <i>Analyt. Biochem.</i> 68:185-195 (1975)

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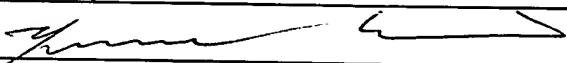
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	Richter, O-M. H., and Schäfer, G., "Cloning and sequencing of the gene for the cytoplasmic inorganic pyrophosphatase from the thermoacidophilic archaeabacterium <i>Thermoplasma acidophilum</i> ," <i>Eur. J. Biochem.</i> 209:351-355 (1992)
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	AT	28	Rozovskaya, T. A., et al., "Pyrophospholytic Reaction Catalyzed by <i>Escherichia coli</i> RNA Polymerase," <i>Mol. Biol.</i> 15:498-510 (1981)

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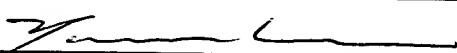
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	29	Rubin, H., "Central role for magnesium in coordinate control of metabolism and growth in animal cells," <i>Proc. Natl. Acad. Sci. USA</i> 72:3551-3555 (1975)
	AS	29	Seal, G., and Loeb, L. A., "On the Fidelity of DNA Replication," <i>J. Biol. Chem.</i> 251:975-981 (1976)
	AT	29	Siebers, B., et al., "Ppi-Dependent Phosphofructokinase from <i>Thermoproteus tenax</i> , an Archaeal Descendent of an Ancient Line in Phosphofructokinase Evolution," <i>J. Bacteriol.</i> 180:2137-2143 (April 1998)

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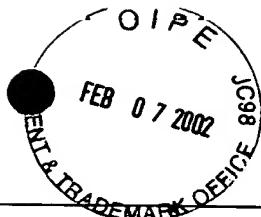
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Y</i>	AR	30	Silverman, L. J., et al., "Genetic Analysis of Human Hypoxanthine-Guanine Phosphoribosyltransferase Deficiency," <i>Enzyme</i> 38:36-44 (1987)
	AS	30	Srivastava, A., and Modak, M. J., "Enzymatic Activities Associated with Avian and Murine Retroviral DNA Polymerases," <i>J. Biol. Chem.</i> 255:2000-2004 (1980)
	AT	30	Suttle, D. P., et al., "Molecular cloning and nucleotide sequence for the complete coding region of human UMP synthase," <i>Proc. Natl. Acad. Sci. USA</i> 85:1754-1758 (1988)

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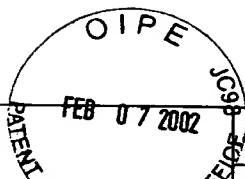
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	AR	<u>31</u>	Tabor, S., and Richardson, C. C., "A bacteriophage T7 RNA polymerase/promoter system for controlled exclusive expression of specific genes," <i>Proc. Natl. Acad. Sci. USA</i> 82:1074-1078 (1985)
	AS	<u>31</u>	Tabor, S., and Richardson, C. C., "DNA sequence analysis with a modified bacteriophage T7 DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 84:4767-4771 (1987)
	AT	<u>31</u>	Tabor, S., and Richardson, C. C., "Selective Oxidation of the Exonuclease Domain of Bacteriophage T7 DNA Polymerase," <i>J. Biol. Chem.</i> 262:15330-15333 (1987)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SL</i>	AR	<u>32</u>	Tabor, S., et al., "Escherichia coli Thioredoxin Confers Processivity on the DNA Polymerase Activity of the Gene 5 Protein of Bacteriophage T7," <i>J. Biol. Chem.</i> 262:16212-16223 (1987)
	AS	<u>32</u>	Tabor, S., and Richardson, C. C., "Selective Inactivation of the Exonuclease Activity of Bacteriophage T7 DNA Polymerase by <i>in Vitro</i> Mutagenesis," <i>J. Biol. Chem.</i> 264:6447-6458 (1989)
	AT	<u>32</u>	Tabor, S., and Richardson, C. C., "Effect of manganese ions on the incorporation of dideoxynucleotides by bacteriophage T7 DNA polymerase and <i>Escherichia coli</i> DNA polymerase I," <i>Proc. Natl. Acad. Sci. USA</i> 86:4076-4080 (1989)

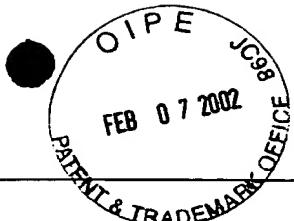
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Tommy L. Lai

DATE CONSIDERED

12-9-02

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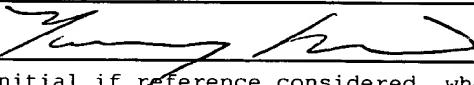
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	33	Teplyakov, A., et al., "Crystal structure of inorganic pyrophosphatase from <i>Thermus Thermophilus</i> ," <i>Protein Science</i> 3:1098-1107 (1994)
	AS	33	English language abstract of JP 7-163343 (Document No. A08), Derwent World Patents Index, WPI Accession No. 95-260036/199534
	AT	33	English language abstract of JP 8-9999 (Document No. AL9), Derwent World Patents Index, WPI Accession No. 96-110292/199612.

EXAMINER		DATE CONSIDERED
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<i>JP</i>	AI6	4,403,035	09/06/1983	Anderson et al.	435	172--	
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	AK6	5,001,050	03/19/1991	Blanco et al.	435	5	

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<i>JP</i>	AP6	WO 90/10064	09/07/1990	WIPO			Yes No

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EXAMINER	<i>John C.</i>	DATE CONSIDERED	<i>12-9-02</i>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA7	5,047,342	09/10/1991	Chatterjee	435	194	
	AB7	5,322,785	06/21/1994	Comb et al.	435	194	
	AC7	5,424,190	06/13/1995	Fuller	435	6	
	AD7	5,480,980	01/02/1996	Seela	536	23.1	
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	AM7	WO 93/06243	04/01/1993	WIPO			Yes No
	AN7	WO 94/05797	03/17/1994	WIPO			Yes No
	AO7	WO 95/28636	10/26/1995	WIPO			Yes No
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AN8	WO 93/02212	02/04/1993	WIPO			Yes No
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AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	34	Fuller, C.W., et al., "Mechanisms for the Initiation of Bacteriophage T7 DNA Replication," in <u>Structures of DNA, Cold Spring Harbor Symposia on Quantitative Biology, Vol. XLVII, Cold Spring Harbor Laboratory, pp. 669-679 (1983)</u> . <i>Duplicate</i>
AS	34	Huber, H.E., et al., "Escherichia coli Thioredoxin Stabilizes Complexes of Bacteriophage T7 DNA Polymerase and Primed Templates," <i>J. Biol. Chem.</i> 262:16224-16232 (1987). <i>Duplicate</i>
AT	34	Matson, S.W., et al., "The Gene 4 Protein of Bacteriophage T7," <i>J. Biol. Chem.</i> 258:14017-14024 (1983). <i>Duplicate</i>

EXAMINER	<i>Y</i>	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.		

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FORM PTO-1449 <u>THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 0942.4150002	APPLICATION NO. 09/883,183
		APPLICANT Blakesley, R.W.	
		FILING DATE June 19, 2001	GROUP 1656

U.S. PATENT DOCUMENTS

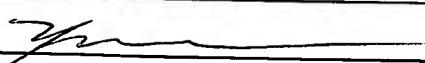
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA						
AB						
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AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AI						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>35</u>	NCBI Entrez, Genbank Report, Accession No. D50811, Hisao, O., (May 31, 1995).
	AS	<u>35</u>	NCBI Entrez, GenBank Report, Accession No. U13860, Malone, J.A., (August 19, 1994).
	AT	<u>35</u>	

EXAMINER 	DATE CONSIDERED <u>12-9-01</u>
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